

10/662, 536

Application No. 10/662,536  
Amendment dated March 10, 2005  
Reply to Office Action of November 10, 2004  
Attorney Docket No. DP-3000006con

train system of the present invention utilizing a solid oxide fuel cell (SOFC) SOFC on the exhaust side of an engine with the engine configured to produce hydrogen rich exhaust to feed the SOFC.

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Replace the paragraph beginning at page 4, line 36 and carrying over to page 5, with the following amended paragraph:

The present system and method relate to an engine configured and operated to produce a hydrogen rich engine exhaust and to oxygen enrichment devices to further optimize production of hydrogen rich engine exhaust. The present hydrogen rich exhaust engines include, but are not limited to, a free piston gas generator with rich homogenous charge compression ignition, an oxygen generator and rich internal combustion engine cylinder system, and a rich inlet turbo-generator system with exhaust heat recovery. Oxygen enrichment devices include, but are not limited to, pressure swing absorption (PSA) with oxygen selective materials, oxygen separators such as a solid oxide fuel cell (SOFC) an SOFC oxygen separator and an oxygen separator utilizing a ceramic membrane and differential pressure to drive oxygen across the membrane.

Replace the paragraph beginning at page 6, line 22, with the following amended paragraph:

The present power generation system and method provides a hydrogen rich engine exhaust for feeding a SOFC provided on the exhaust side of an engine. The concept of providing a SOFC on the exhaust side of an engine is further defined in commonly assigned U.S. Patent 6,655,325, issued December 2, 2003, Application Serial No. 09/241239, Attorney Docket No. II-205063, which is hereby incorporated herein by reference. Commonly assigned U.S. Patent 6,230,494, issued May 15, 2001, hereby incorporated herein by reference, further defines the use of a SOFC in various hybrid